

## Matt Withers

- Ph.D. Student in Physics, admitted Autumn 2021
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### Publications

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#### PUBLICATIONS

- **Search for nonvirialized axions with 3.3-4.2  $\mu\text{eV}$  mass at selected resolving powers** *PHYSICAL REVIEW D*  
Hipp, A. T., Quiskamp, A., Caligiure, T. J., Gleason, J. R., Han, Y., Jois, S., Sikivie, P., Solano, M. E., Sullivan, N. S., Tanner, D. B., Goryachev, M., Hartman, E., Tobar, et al  
2025; 112 (10)
- **Maximizing quantum enhancement in axion dark matter experiments** *PHYSICAL REVIEW D*  
Kuo, C., Bartram, C. L., Chou, A. S., Dyson, T. A., Kurinsky, N. A., Rybka, G., Ruppert, S., Wen, O., Withers, M. O., Yi, A. K., Zhang, C.  
2025; 111 (12)
- **Beehive haloscope for high-mass axion dark matter** *PHYSICAL REVIEW D*  
Withers, M. O., Kuo, C.  
2025; 111 (7)
- **Laboratory Integration of the AliCPT-1 Receiver** *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*  
Salatino, M., Withers, M. O., Kuo, C., Thompson, K. L., Austermann, J., Groh, J. C., Karpel, E. D., Mauskopf, P., Meinke, J., Montana-Lopez, J. A., Parker, C., Roberson, C., Weeks, et al  
2023; 33 (5)